

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,214	03/30/2001	Michael Robert Dunlavey	261/049	6076
20350	7590 12/22/2004		EXAMINER	
	D AND TOWNSEN RCADERO CENTER	SHAAWAT	SHAAWAT, MUSSA	
EIGHTH FLOOR			ART UNIT	PAPER NUMBER
SAN FRANC	CISCO, CA 94111-38	1	2128	

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exemensor is time many be areable under the provision of 31 CPR 1.38(a), in no event, however, may a reply be timely filled the period for reply specified above is less than thiny (30) days, a reply within the statutory minimum of librity (30) days, will be considered timely. If the period for reply specified above is less than thiny (30) days, a reply within the statutory minimum of librity (30) days, and we legals (50) MONTHS from the marting date of this communication from the reality date of this communication from the reality date of this communication, and the replaced them adjustment. See 37 CFR 1.704(a). Status 1)② Responsive to communication(s) filled on 30 March 2001. 2a) This action is FINAL. 2b) ② This action is formation is non-direction. 2b) ③ This action is final. 2c) ② This action is final. 2c) Status Disposition of Claims 4)② Claim(s) ½26 is/are pending in the application. 4a) Of the above claim(s) — is/are withdrawn from consideration. 5) □ Claim(s) — is/are allowed. 6)② Claim(s) — is/are objected to. 8) □ Claim(s) — is/are objected to. 8) □ Claim(s) — is/are objected to. 8) □ Claim(s) — is/are objected to by the Examiner. 10) ② The specification is objected to by the Examiner. 10) ② The drawing(s) filed on 30 March 2001 is/are: a) ② accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the corrections required the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. 12) □ Acknowledgment is made of a claim for foreign priority under 3								
Examiner —The MAILING DATE of this communication appears on the c ver sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of time may be available under the provisions of 37 CPR 1.13(b). In ore vert, however, may a reply be timely filled. If the period for reply is agelied above, the neuronn distutory period will apply and will apply and will stopp in SIX (6) MONTHS from the mailing date of this communication. If the period for reply is agelied above, the neuronn distutory period will apply and will apply sold (3) MONTHS from the mailing date of this communication. If the period for reply is agelied above, the neuronn distutory period will apply and will apply sold will be contained to the period of		Application N .	Applicant(s)					
Mussa A Shaawat 2128 -The MAILING DATE of this communication appears on the c_ver sheet with the correspondence address = Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. He period for reply specified above is loss than thirty (30) days, are party within the staketory minimum of theiry (30) days will be considered timely. He period for reply specified above is loss than thirty (30) days, are party within the staketory minimum of theiry (30) days will be considered timely. He period for reply specified above is loss than thirty (30) days, are party within the staketory minimum of theiry (30) days will be considered timely. He period for reply specified above, the maximum standary partied will apply within the staketory minimum of theiry (30) days will be considered timely. He period for reply specified above, the maximum standary partied will apply within the staketory minimum of theiry (30) days will be considered timely. He period for reply specified and their timel time mentities after the maximing date of the communication. Any reply received by the Office later than time months after the maximing date of the communication, even if simely filed, may reduce any search parties. Any reply received by the Office later than time months after the maximing date of the communication. Any reply received by the Office later than time months after the maximing date of the communication. Any reply received by the Standard timely filed on 30 March 2001. Claim (S) 1-26 is/are pending in the application of Claims Claim (S) 1-26 is/are pending in the application. Application of Claims Disposition of Claims Alpha and the specification is objected to by the Examiner. Claim (S) 1-26 is/are allowed. Claim (S)	Office Addison Communication	09/823,214	DUNLAVEY ET AL.					
The MALLING DATE of this communication appears on the c_ver sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Estension of term she be available under the provision of 3° CFR 1.13(a). In no event, however, may a reply be timely filed Estension of term she to available under the provision of 3° CFR 1.13(a). In no event, however, may a reply be timely filed Estension of term plus appendies above in least then filtery (30) days, a reply within the stabulory minimum of theiry (30) days will be considered timely. If the period for reply tapedied above in least then filtery (30) days, a reply within the stabulory minimum of theiry (30) days will be considered timely. If the period for reply tapedied above is least then filtery period will period will reply shift (MONTHS from the building date). If the period for reply tapedied above is least then filtery period and period will be period (30) days will be considered timely. If the period for reply tapedied above is least then filtery (30) days. If the period for reply tapedied above is least then filtery (30) days. If the period for reply tapedied to reply will, by stability, cause the application is become addition. If the period for reply tapedied to communication. If the period for reply tapedied to the period of the communication of the communication. If the period for reply tapedied to the minimum term of the period of the days of the minimum term of the communication. If the period for reply tapedied to the period of the communication of the period of the application for an application of Claims If the period for the period the period to the period of the period of the period to the period to the period of the period to the period to the period of the period to the period of the period to the period to the period to the period to the	Oπice Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Exercision of time may be investable under the provisions of 37 CFR 1.35(a), in no event, however, may a risply be timely filled - If the period for reply secreted shows it less than they only days, are lays within the statutory mitimum of thinly (30) days will be considered timely. - If NO ported for reply is secreted above, the maximum statutory period will apply and will expire SIX (9) MONTH'S from the mailing day to it in some authority of the some mailing days and the considered timely. - If NO ported for reply is specified above, the maximum statutory period will apply and will expire SIX (9) MONTH'S from the mailing day of this communication Failure in my reply will be seen and statutory period will apply and will expire six (9) MONTH'S from the mailing day of the some authority of the communication Failure in my reply will be seen and statutory mailing days and the some authority of the communication, even if timely fluid, may reduce any search plant term adjustment. See 37 CFR 1.704(b). - Status - In September 1 Six and the second plant of the six and second plant term adjustment. See 37 CFR 1.704(b). - Status - In See a see								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 30°CR 1.33(s). In no event, however, may a reply be timely filed after 5IX (8) MONTHS from the melling date of his communication. If the period from syst pescend adverse is less than thing (00) days, a reply within the databoxy rinierum of thiny (00) days, with be considered timely. If the period from syst pescend adverse is less than thing (00) days, a reply within the databoxy rinierum of thiny (00) days, with the possibility of the period	The MAILING DATE of this communication app Period for Reply	ears on the c ver sheet with the c	correspondence address					
1) Responsive to communication(s) filed on 30 March 2001. 2a	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply. If NO period for reply is specified above, the maximum statutory period versillure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing 	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 10) The precification is objected to by the Examiner. 10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:	Status							
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) Notice of References Cited (PTO-892) 2) Notice of Informal Patent Application (PTO-152)	1)⊠ Responsive to communication(s) filed on 30 M	<u>arch 2001</u> .						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)	·- · ·							
Application of Claims 4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Paper Not(s)/Mail Date	3) Since this application is in condition for allowar	_						
4)	closed in accordance with the practice under E							
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 30 March 2001 is/are: a) ☒ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SI/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Disposition of Claims							
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 March 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SI/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	4)⊠ Claim(s) 1-26 is/are pending in the application.	r						
6) ☐ Claim(s) 7-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 March 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	4a) Of the above claim(s) is/are withdraw							
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Claim(s) is/are allowed.	S) Claim(s) is/are allowed.						
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 March 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	6)⊠ Claim(s) <u>1-26</u> is/are rejected.							
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 30 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1 ☐ Certified copies of the priority documents have been received. 2 ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 20 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	7) Claim(s) is/are objected to.							
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 30 March 2001 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	8) Claim(s) are subject to restriction and/or	r election requirement.						
10) ☐ The drawing(s) filed on 30 March 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers	•						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	9) The specification is objected to by the Examine	r.						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some column None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	,— , , , , , , , , , , , , , , , , , ,							
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 1. ☐ Certified copies of the priority documents have been received. 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119							
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 1. ☐ Certified copies of the priority documents have been received. 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application (PTO-152)	12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date 5) ☐ Notice of Informal Patent Application (PTO-152)			•					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	1. Certified copies of the priority documents	s have been received.	•					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date	2. Certified copies of the priority documents	s have been received in Applicat	ion No					
* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	application from the International Bureau	յ (PCT Rule 17.2(a)).						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	* See the attached detailed Office action for a list of the certified copies not received.							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	•							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)	Attachment(s)		(DTO 442)					
3) Notice of Informal Patent Application (PTO-152)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
	3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F						

Art Unit: 2128

DETAILED ACTION

1. This action is responsive to application # 09/823,214, filed on March 30, 2001. Claims 1-26 are presented for examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

- (e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated John A. Keane US Patent No. (6,381,562) referred to hereinafter as Keane.

As to claim 1, KEANE teaches a method for pharmacological computational model construction, comprising:(a) presenting a graphical user interface having a plurality of objects, each object representing one or both of a pharmacokinetic element and a pharmacodynamic element (see col.13 lines 40-45, and col.16 lines 15-25, user enters drug characteristics which corresponds to pharmacodynamic elements);

- (b) Receiving instructions via the graphical user interface for connection of at least two of the objects (see col.16 lines 27-45, user selects organ elements as an input to fluid flow model);
- (c) Displaying the at least two objects connected in accordance with the received instructions (see col.16 lines 46-51, elements are stored and are retrieved y so that they would be accessible to the user);

Art Unit: 2128

(d) Converting the at least two connected objects into equations corresponding to the pharmacokinetic and pharmacodynamic elements represented by the at least two connected objects, wherein the converting step (d) occurs substantially coincident with the object displaying step (c) (see col.16 lines 61-67, col.17 lines 1-2, and col.18 lines 11-43); and

(e) Displaying the equations on the graphical user interface substantially coincident with the object-displaying step (c) (see col.23 lines 50-56, display the result of the model to the user).

As to claim 2, KEANE teaches a method of claim 1, wherein the converting step (d) comprises: (f) converting the at least two connected objects into an internal format (col.17 lines 33-52); and (g) converting the internal format into a surface syntax (see col.6 64 -67, col.7 lines 1-2, and col.17 lines 3-15).

As to claim 3, KEANE teaches a method of claim 2, wherein the surface syntax represents differential equations in an integrator equals rate expression format (see col.6 64 –67, col.7 lines 1-2, and col.17 lines 3-15).

As to claim 4, KEANE teaches a method of claim 2, wherein the objects comprise one of more of compartment blocks, flow blocks, response blocks, and formulation blocks (see col.16 lines 27-45).

As to claims 14-15, the limitations of claims 14-15 are the same limitations of claims 1-2; therefore they are rejected based on the same rationale, supra.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 5-13, and 16-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over John A. Keane US Patent No. (6,381,562) referred to hereinafter as Keane in view of Dwayne Westenskow US Pub. No. (US 2003/0156143A1) referred to hereinafter as Westenskow.

As to claim 5, KEANE teaches a method for pharmacological computational model construction, comprising: (a) presenting a graphical user interface having a plurality of objects, each object representing one or both of a pharmacokinetic element and a pharmacodynamic element (see col.13 lines 40-45, and col.16 lines 15-25, user enters drug characteristics which corresponds to pharmacodynamic elements);

- (b) Receiving instructions via the graphical user interface for connection of at least two of the objects (see col.16 lines 27-45, user selects organ elements as an input to fluid flow model);
- (c) Displaying the at least two objects connected in accordance with the received instructions (see col.16 lines 46-51, elements are stored and are retrieved y so that they would be accessible to the user);
- (d) Converting the at least two connected objects into equations corresponding to the pharmacokinetic and pharmacodynamic elements represented by the at least two connected objects, wherein the converting step (d) occurs substantially coincident with the object displaying step (c) (see col.16 lines 61-67, col.17 lines 1-2, and col.18 lines 11-43); and
- (e) Interpreting the internal format to generate a time-based simulation including calculation of one or more selected variables (see col.6 64 –67, col.7 lines 1-2, and col.17 lines 3-15);

However Keane does not expressly teach plotting one or more selected variables in a graph and update the graph.

Westenskow teaches plotting one or more selected variables in a graph and updating the graph (see Page 14 Paragraph [0160], et-seq).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting one or more variables in a graph would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 6, KEANE teaches a method of claim 5, further comprising: (h) receiving commands via the graphical user interface to modify at least one of the one or more selected variables (see col.16 lines 27-45, user selects organ elements as an input to fluid flow model); and

However Keane does not expressly teach plotting one or more selected variables in a graph and update the graph.

Westenskow teaches plotting one or more selected variables in a graph and updating the graph (see Page 14 Paragraph [0160], et-seq).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting one or more variables in a graph would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship

between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 7, KEANE teaches a method of claim 6, wherein the modifying step (i) comprises revising the internal format (see col.6 64 -67, col.7 lines 1-2, and col.17 lines 3-15).

As to claim 8, KEANE teaches a method of claim 6, wherein one or more of the one or more selected variables depend upon a random variable, wherein the interpreting step (e) generates a value for the random variable upon each repetition (see col.6 64 –67, col.7 lines 1-2, and col.17 lines 3-15),

However Keane does not expressly teach plotting one or more selected variables in a graph and update the graph.

Westenskow teaches plotting one or more selected variables in a graph and updating the graph (see Page 14 Paragraph [0160], et-seq).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting one or more variables in a graph would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 9, KEANE teaches a method of claim 6, wherein the internal format comprises a parse tree (see col.6 64 –67, col.7 lines 1-2, and col.17 lines 3-15, and Figure 8).

As to claim 10, KEANE teaches a method of claim 6, wherein the one or more selected variables comprise at least two selected variables (see col.13 lines 40-59),

However Keane does not expressly teach plotting one or more selected variables in a graph and update the graph.

Westenskow teaches plotting at least one selected variable versus another selected variable (see Page 14 Paragraph [0160], et-seq).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting at least one selected variable versus another selected variable would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 11, KEANE teaches one or more selected variables (see col.13 lines 40-59). However Keane does not expressly teach plotting one or more selected variables versus time.

Westenskow teaches plotting at least one selected variable versus time (see Page 14 Paragraph [0160], et-seq).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting at least one selected variable versus time would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 12, KEANE teaches a method of claim 5, further comprising: (j) translating the internal format into text strings representing equations, the equations corresponding to the

Application/Control Number: 09/823,214

Art Unit: 2128

respective pharmacokinetic and pharmacodynamic elements represented by the two or more connected objects (see col.6 64 –67, col.7 lines 1-2, and col.17 lines 3-15); and (k) displaying the text strings substantially coincident with the object displaying step (c) (see col.23 lines 50-56, display the result of the model to the user).

As to claim 13, KEANE teaches a method of claim 12, wherein the objects comprise one or more of compartment blocks, flow blocks, response blocks, and formulation blocks (see col.16 lines 27-45).

As to claim 16, the limitations of claim 16 are the same limitations of claim 5; therefore they are rejected based on the same rationale, supra.

As to claim 17, the limitations of claim 1 are the same limitations of claim 6; therefore they are rejected based on the same rationale, supra.

As to claim 18, the limitations of claim 18 are the same limitations of claim 8; therefore they are rejected based on the same rationale, supra.

As to claim 19, the limitations of claim 19 are the same limitations of claim 11; therefore they are rejected based on the same rationale, supra.

As to claim 20, the limitations of claim 20 are the same limitations of claim 12; therefore they are rejected based on the same rationale, supra.

As to claim 21, the limitations of claim 21 are the same limitations of claim 5; therefore they are rejected based on the same rationale, supra.

As to claim 22, the limitations of claim 22 are the same limitations of claim 6; therefore they are rejected based on the same rationale, supra.

As to claim 23, the limitations of claim 23 are the same limitations of claim 8; therefore they are rejected based on the same rationale, supra.

As to claim 24, the limitations of claim 24 are the same limitations of claim 11; therefore they are rejected based on the same rationale, supra.

As to claim 25, KEANE teaches one or more selected variables (see col.13 lines 40-59). However Keane does not expressly teach plotting one or more selected variables using a different color.

Westenskow teaches plotting at least one selected variable using color (see Page 14 Paragraph [0160], et-seq, color bands on the graph shows the effect of individual drugs which corresponds to variables being plotted on a graph using different colors).

It would have been obvious to one of the ordinary skill in the art at the time of the applicant's invention to combine the teaching of Westenskow to Keane's method because Westenskow's teaching of potting at least one selected variable using different colors indicators for each variable would allow users of Keane's method to quickly and accurately analyze the complex and rapidly changing relationship between various data. Moreover, presenting the information to a user in a graphical form is easier for the user to correlate, manipulate and use the information.

As to claim 26, the limitations of claim 26 are the same limitations of claim 12; therefore they are rejected based on the same rationale, supra.

Art Unit: 2128

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

 Keane Pub. No. (US 2002/0120431A1) configurable Bio-transport system simulator.

- Comanor US Patent No. (5,860,917) method and apparatus for predicting therapeutic outcomes.
- Weininger US Patent No. (5,434,796) method and apparatus for designing molecules with desired properties by evolving successive populations.
- Garner Pub. No. (2204/0093331) computer program products, systems and methods for information discovery and relational analysis.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mussa A Shaawat whose telephone number is (571) 272-3785. The examiner can normally be reached on Monday-Friday (8:30am to 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean R Homere can be reached on (571) 272-3780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2128

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mussa Shaawat Patent Examiner December 9, 2004

> JEANA. HOMERE PRIMARY EXAMINER